

## ExxonMobil Santoprene® 121-85M100 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

### Material Notes:

A hard, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and completely recyclable. Key Features: Used in applications for exterior trims and spoilers for injection molding. Designed for fast, easy injection molding, especially for complex part geometries. Used in sealing applications. Recommended for applications requiring superior part surface appearance. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. Although not NSF certified, this product has a Material Supplier Form on file with NSF to facilitate its evaluation for use in applications requiring NSF certification. EU and China RoHS compliant. Applications: Automotive- Seals and Gaskets. Uses: Automotive Applications Automotive Interior Trim Automotive Exterior Trim Automotive Under the Hood. Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America. Information provided by ExxonMobil Chemical

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[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-121-85M100-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-121-85M100-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	2 mm, 15 sec; ISO 868
	92	92	Air at 302°F, 168 hr; ASTM D573
Tensile Strength at Break	7.31 MPa	1060 psi	Across Flow; ASTM D412
	7.5277 MPa	1091.8 psi	Air at 302°F, 168 hr; ASTM D573
Tensile Strength, Ultimate	4.83 MPa	700 psi	Across Flow; ASTM D412
	4.80 MPa	696 psi	Across Flow; ASTM D412
Tensile Stress	@Strain 100 %	@Strain 100 %	
Elongation at Break	296.4 %	296.4 %	Air at 302°F, 168 hr; ASTM D573
	390 %	390 %	Across Flow; ASTM D412
Tear Strength	31.0 kN/m	177 pli	73°F, Die C, Across Flow; ASTM D624
Compression Set	53 %	53 %	158°F, 22 hr; ASTM D395
	62 %	62 %	212°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-53.9 °C	-65.0 °F	ASTM D746
Flammability, UL94	HB @Thickness 1.10 mm	HB @Thickness 0.0433 in	

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Descriptive Properties	Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr	72	
Color	Black	
Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

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